

Product datasheet for **SC119754**

ADH4 (NM_000670) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADH4 (NM_000670) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADH4
Synonyms:	ADH-2; HEL-S-4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119754 sequence for NM_000670 edited (data generated by NextGen Sequencing)

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ATGGGCACCAAGGGCAAAGTTATTAATGCAAAGCAGCCATCGCCTGGGAAGCAGGCAAG
CCCCTTTGCATTGAAGAGGTTGAAGTAGCTCCCCCAAGGCTCATGAAGTTCGCATTCAG
ATCATTGTACTCCCTGTGCCATACTGATGCCACTGTTATCGATTCTAAATTTGAGGGC
CTAGCTTTCCAGTGATCGTTGGCCATGAGGCTGCAGGATTGTGGAAAGTATTGGGCCA
GGAGTGACCAACGTCAAACCAGGTGACAAAGTAATCCACTTTATGCACCTCTATGTAGA
AAATGCAAGTTTTGTCTGAGTCCACTCACAAATTTGTGTGGGAAAATCAGTAATCTCAA
AGTCTGTAGTATCAACAATGGAAGACAAAACCAGCAGGTTTACCTGCAAAGGA
AAACCAGTTTACCATTTCTTGGAAACCAGTACATTCTCTCAGTACACTGTGGTGCAGAT
ATCAATCTTGCCAAAATAGATGATGATGCAAATTTAGAGAGAGTTTGTCTGCTTGGATGT
GGGTTTTCAACTGGCTATGGGGCTGCAATCAACAATGCCAAGGTCACCCCTGGTTCGACT
TGTGCTGTCTTTGGCCTAGGAGGTGTGGGTCTTTCTGCTGTAATGGGTTGTAAAGCAGCA
GGAGCTTCCAGAATCATAGGTATTGACATCAACAGTGAGAAGTTTGTGAAGGCTAAAGCC
CTGGGAGCCACTGACTGCCTCAATCCTAGAGACTTACATAAACCTATCCAGGAAGTTATC
ATTGAATTGACCAAGGGAGGTGTGGATTTTGCCTTGACTGTGCAGGTGGATCTGAAACC
ATGAAAGCAGCCCTGGACTGTACAACCGCAGGCTGGGGATCATGTACTTTTATTGGAGTA
GCTGCTGGTAGCAAAGGATTGACTGTTTTTCCAGAGGAGCTAATAATCGGCCGTAATA
AATGGAACATTTCTTGGTGGTTGGAAAAGTGTAGATTCTATCCCAAAGCTGGTCACTGAC
TATAAGAATAAGAAATCAATCTGGATGCACTGGTGACCCATACCCCTGCTTTTGACAAA
ATCAGTGAGGCATTTGACCTAATGAACCAAGGAAAAAGCATCCGAACAATCCTCATCTTT
TGA
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Clone variation with respect to NM_000670.3
765 g=>t;925 a=>g;1120 g=>a



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000670 unedited GTAATACGACTCACTATAGGGCGGCCGCGCAGTTTCCCAAAAAAAAAAGGGCACCAAGGGC AAAGTTATTAATGCAAAGCAGCCATCGCCTGGGAAGCAGGCAAGCCCCTTTGCATTGAA GAGGTTGAAGTAGCTCCCCCAAGGCTCATGAAGTTTCGCATTTCAGATCATTGCTACCTCC CTGTGCCATACTGATGCCACTGTATCGATTCTAAATTTGAGGGCCTAGCTTTCCAGTG ATCGTTGGCCATGAGGCTGCAGGTATTGTGAAAGTATTGGGCCAGGAGTGACCAACGTC AAACCAGGTGACAAAGTAATTCCACTTTATGCACCTCTATGTAGAAAATGCAAGTTTTGT CTGAGTCCACTCACAAATTTGTGTGGGAAAATCAGTAATCTCAAAGTCCCTGCTAGTGAT CAACAATAATGGAAGACAAAACCAGCAGGTTTACCTGCAAAGGAAAACAGTTTACCAT TTCTTTGGAACCAAGTACATTCTCTCAGTACACTGTGGTGTGAGATATCAATCTTGCCAAA ATAGATGATGATGCANATNTAGAGAGAGTTTGTCTGCTTGGATGTGGGTTTTCAACTGGC TATGGNGCTGNCATCAAACATGCCAAGGTCACCCCTGGNTCGACTTGTGCTGTCTTTGCC TANNAGTGTGGGTCTTTCTGCTGTAATGGNTNGTAAAGCAGCAGGAGCTCCAGAATCA TAGGTATTGACATCAACAGTGAGAAGTTTGTGAAGGCTAANAGCCCTGGACCACTGACTG CCTCCATCCTAGAGACTTACATANACCTATNCCAGAAAGTATCATTGAAATGACCAGGGN ANGGTGTGATNNTGCCCTTGACTGTGCNAGTGGATCTGAAACCATAAGGCAGNCCTGNAC TGTACACCGCNAGCTGGGATCATGTATTNCATTGNNACTGCTGGTACAAGATGACTT GTTTCCAAGACTAAAATCGNCGACTTTAATGGCTTCTTGGTGTGAAAGGTAATCTACCC ACTGGCCTGCCTAAAAGAAATTATGGGTCTGGGACCACCTGCTTGAN
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000670 unedited TTTTTTTTTTTTTTTTTTTTTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_000670
Insert Size:	2100 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_000670.3</u> , <u>NP_000661.2</u>
RefSeq Size:	1980 bp
RefSeq ORF:	1143 bp
Locus ID:	127
UniProt ID:	<u>P08319</u>

Cytogenetics:	4q23
Domains:	ADH_zinc_N
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - cytochrome P450, Fatty acid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tyrosine metabolism
Gene Summary:	<p>This gene encodes class II alcohol dehydrogenase 4 pi subunit, which is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. Class II alcohol dehydrogenase is a homodimer composed of 2 pi subunits. It exhibits a high activity for oxidation of long-chain aliphatic alcohols and aromatic alcohols and is less sensitive to pyrazole. This gene is localized to chromosome 4 in the cluster of alcohol dehydrogenase genes. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and lacks an exon in the 5' coding region, which results in use of an alternate start codon compared to variant 1. It encodes isoform 2, which is shorter than and has a novel N-terminus compared to isoform 1.</p>